

CDF Run IIb Change Request

Title: Revised Scope of the Trigger/DAQ subproject		
WBS: 1.3		
Affected Items: WBS 1.3		
Originator: Doug Benjamin		Email: dbenjamin@fnal.gov Phone: 630-840-8432
CCB DISPOSITION	DATE	Approval:
Accepted • Rejected • Forward to Director •		CDF PM _____ Date _____
Chairperson:		ADR _____ Date _____
		DOE PM _____ Date _____
Summary: <p>A revaluation of scope for the XFT and SVT subproject has resulted in a revision of their scope. The silicon DAQ portion of the project is being removed. Changes in the schedule of the TDC cause the cost to increase slightly. Changes in the schedule of Level 2 and Event Builder portion result in a minor decrease in cost.</p>		
Technical Part I: <p>The technical changes to the project are described in the documentation for the 20-July-2004 FNAL director's review of the CDF Run2b project website. The corresponding URL is: http://www-cdf.fnal.gov/upgrades/run2b/DIR_Jul04/DIR_Jul04.html</p>		
Part II: Schedule <p>The milestone changes to the schedule are reflected in Table 1 of Appendix A.</p>		
Part III: Cost <p>The total cost of DOE equipment funds needed for the Trigger/ DAQ project drops from \$4,644,369 to \$4,230,903, a (\$413,466) change. The details of the cost decrease are contained in Appendix B.</p>		
Part IV: Work Breakdown Structure (WBS) & Dictionary <p>WBS 1.3.7 is removed from the schedule. WBS 1.3.3 is replaced by the revised 1.3.11.</p>		
Part V: ES&H Impact <p>None</p>		
Part VI: Labor <p>The requested FNAL labor is outlined in the resource loaded schedule.</p>		

Appendix A: Changes to the High Level (level 2 or higher) Milestones in the Trigger/DAQ schedule.

The table below details the high level milestone changes in WBS 1.3.

WBS	Milestone	Date
Current XFT Project		
1.3.3.2.3.4	Fabrication of Prototype XFT Finder 1/3 board	8-Jan-04
1.3.3.2.6.9	Begin Production XFT Finder SL7 boards	28-Mar-05
1.3.3.8.1.9	Prototype XFT Linker Module available for testing	26-Mar-04
1.3.3.8.3.3	Begin Production XFT Linker Modules	24-Mar-05
1.3.3.10.3.3	Begin Preproduction XFT Stereo Association Modules	29-Nov-04
1.3.3.10.4.6	XFT Production Stereo Association Modules complete	18-Aug-05
1.3.3.23	XFT Ready for Installation at CDF	29-Sep-05
Proposed XFT Project		
1.3.11.2.5.1	Begin Production XFT Finder Boards	21-Mar-05
1.3.11.9	XFT Complete	27-Jul-05
1.3.11.10	XFT Ready for Installation at CDF	27-Jul-05
Current SVT Project		
1.3.6.5	SVT ready for installation	13-Dec-04
Proposed SVT Project		
1.3.6.3	SVT ready for installation	3-Jun-05
Current Silicon DAQ		
1.3.7.2.2.4	Silicon Project DAQ 1st round testing complete	3-Apr-03
1.3.7.2.3.4	Go ahead for Silicon Project DAQ Preproduction	4-Dec-03
1.3.7.2.4.6	Go ahead for Silicon Project DAQ Production	23-Aug-04
Proposed Silicon DAQ		
All tasked deleted - All milestones removed.		

Appendix B: Changes in cost (AY\$) the Trigger/DAQ schedule.

This table describes the changes in the DOE equipment cost for WBS 1.3. These costs are fully burdened and in actual year dollars.

	Current Baseline (AY\$)	Proposed Revised Baseline (AY\$)	Change (AY\$)
Run 2b DAQ and Trigger Project			
1.3.1 Run 2b TDC Project	1,105,744	1,135,589	29,845
1.3.2 Run 2b Level 2 Project	366,655	363,797	(2,858)
1.3.11(1.3.3) Run 2b XFTII Project	1,146,971	1,443,213	296,242
1.3.4 Event-Builder Upgrade	517,361	512,966	(4,395)
1.3.5 Computer for Level3 PC Farm / DAQ	478,908	478,908	0
1.3.6 SVT upgrade	174,441	296,430	121,989
1.3.7 Silicon Detector DAQ Upgrades	854,289	0	(854,289)
Totals:	4,644,369	4,230,903	(413,466)